89 JUL 11 AH 9: 56

Beechcraft A Raytheon Company

90-890000437

July 5, 1989

TSCA Document Processing Center (TS-790)
Office of Toxic Substances
U.S. Environmental Protection Agency
Room L-100
401 M St., S.W.
Washington, DC 20460

Attention: 8(a) Reporting

Attached is the 1988 CAIR Report for our Wichita facility.

If you have any questions, please call me at (316) 681-7488.

Yours truly,

BEECH AIRCRAFT CORPORATION

Tim Lenz, P.E.

Environmental Specialist

njh



Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89



000622672P

90-890000437

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule

REPORTING FORM

9 J. 11 M 9: 57

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt:

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		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A GI	ENERAL REPORTING INFORMATION
1.01		s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	com	pleted in response to the <u>Federal Register</u> Notice of $[O]Z$ $[O]C$ $[B]$ $[A]$ year
 [_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[\underline{0}]\underline{\lambda}]\underline{\omega}]\underline{4}]\underline{7}]\underline{1}-[\underline{\omega}]\underline{2}]-[\underline{5}]$
	ь.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_[_]_]-[_]
		Name of chemical substance
1.02		ntify your reporting status under CAIR by circling the appropriate response(s).
CBI		ufacturer 1
[_]	Imp	orter 2
	Pro	ocessor3
	X/I	manufacturer reporting for customer who is a processor
	X/I	processor reporting for customer who is a processor
	Mar	c (X) this box if you attach a continuation sheet.

	in 1	the substance you are reporting on have an "x/p" designation associated with it the above-listed Federal Register Notice?
	Yes	
i <u> </u>	No	
	a.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the <u>Federal</u> <u>Register</u> Notice? Circle the appropriate response.
<u>CBI</u> [<u> </u>		Yes
_		No
	b.	Check the appropriate box below:
		[_] You have chosen to notify your customers of their reporting obligations
		Provide the trade name(s)
		[_] You have chosen to report for your customers [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.
1.05 CBI	rep	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name.
[-]		de name
	Is	the trade name product a mixture? Circle the appropriate response.
	Yes	:
	No	
1.06	Cer	tification The person who is responsible for the completion of this form must on the certification statement below:
	en	hereby certify that, to the best of my knowledge and belief, all information tered on this form is complete and accurate."
	\mathcal{I}	mothy M. Lenz Timety M. Signature Date Signed
	E	nvironmental Specialist (316) 681 - 7488 TITLE TITLE NO.
[_]	Mar	k (X) this box if you attach a continuation sheet.

	And the second s		
1.07 <u>CBI</u>	with the required information of within the past 3 years, and the for the time period specified in are required to complete section now required but not previously submissions along with your Sec		e, and complete ation below. You any information previous
	information which I have not in	best of my knowledge and belief, al cluded in this CAIR Reporting Form and is current, accurate, and compl	Has been submitted
	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u>	certify that the following stat those confidentiality claims when "My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other to a judicial or quasi-judicial printermation is not publicly available.	re asserted any CBI claims in this rements truthfully and accurately applicable you have asserted. to protect the confidentiality of these measures; the information is not by other persons (other than govern than discovery based on a showing of coceeding) without my company's containable elsewhere; and disclosure of my company's competitive position	the information, ot, and has not nment bodies) by f special need in sent; the f the information
	NAME TITLE	SIGNATURE () TELEPHONE NO.	DATE SIGNED

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [B]e]e]c]h]]A]]][]c]c]a]f]+]][]c]o]r]e]a]r]a]+][]a]n
[_]	Address [P] DI DI DI XI _ IDI SI _ I _ I _ I _ I _ I _ I _ I _ I _ I
	(区)エニー・ニー・ニー・ニー・ニーニーニーニーニーニーニーニーニーニー・ニー・ニー・ニ
	Dun & Bradstreet Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [B]e]e]c]h]]A]_]c]c]c]c]e]f]+]_[c]o]c]e]-]c]e]+]_]o]n] Address [P]o]_]B]o]x]_]B[5]_]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[四]工[][][][][][][][][][][][][][][][][][]
	Dun & Bradstreet Number
[_]	Mark (X) this box if you attach a continuation sheet.

Parent Company Identification
Name [R]a y + h e o n - C o m p a n y - - - - - - - - - - - - - - - - - -
(LleixIII) qIFI @IDI _ I _ I _ I _ I _ I _ I _ I _ I _ I
[M]A] [0]2]1]1]3][]]]]
Dun & Bradstreet Number
Technical Contact
Name []]]m]]][]e]n]z]]]]]]]]]]]]]]]]]]]]]]]
Title [E]n x 1 r o n m e n + a 1 5 p e 4 1 a 1 1 5 + -
Address [P]0] B 0 x B 5
[四]丁]乙][[]丁][[][[]][][][][][][][][][][][][
[<u>アミ]</u> [<u>2</u>] 7121011[0]0181 <u>5</u> State
Telephone Number $[3]$ $[3]$ $[6]$ - $[6]$ $[7]$ 4 $[8]$ 8
This reporting year is from

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(
	· [_]_] [_]_]_]_][_]]_]_]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(
	[_]_]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

	NA
Manufactured	
Imported	
Processed (include quantity repackaged)	0,00
Of that quantity manufactured or imported, report that quantity:	4
In storage at the beginning of the reporting year	
For on-site use or processing	
For direct commercial distribution (including export)	<u>NA</u>
In storage at the end of the reporting year	NA
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	UK
Processed as a reactant (chemical producer)	NA.
Processed as a formulation component (mixture producer)	NA
Processed as an article component (article producer)	Le, Lel
Repackaged (including export)	NA
In storage at the end of the reporting year	44

1.17 CBI	Mixture If the listed substance or a component of a mixture, provichemical. (If the mixture compositions component chemical for all for	de the following into	I INVITION TOT EGG	i component
(<u> </u>	Component Name	Supplier Name	Compositio (specify	rage % on by Weight precision, 45% ± 0.5%)
	Toluene Disocypnate	. IPI	L	11/4
	Methylene dipheny Disory	onate IPI		114
	Polyether Preplymar	181	<u></u> u	1/4
	Free Isocyanate	IPI	2	9
				100%
			Total	100%

10

2.04	State the quantity of the listed substance that your facility manufactured, importe or processed during the 3 corporate fiscal years preceding the reporting year in descending order.	d,
CBI		
[_]	Year ending	<u>[</u>]
	Quantity manufactured	kg
	Quantity imported	kg
	Quantity processed	kg
	Year ending []_] [_] Mo. Year	_]
	Quantity manufactured	kg
		kg
	Quantity processed	kg
	Year ending	īr
	Quantity manufactured	kg
	Quantity imported	kg
	Quantity processed	kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.	
[_]	Continuous process	. 1
	Semicontinuous process	. 2
	Batch process	. :
	Mark (X) this box if you attach a continuation sheet.	_

2.06 CBI	Specify the manner in appropriate process ty	which you processed t pes.	he listed substance.	Circle all
[_]	Continuous process			
	Semicontinuous process			······································
	Batch process			
2.07 CBI	State your facility's substance. (If you ar question.)	name-plate capacity f e a batch manufacture	or manufacturing or pr r or batch processor,	rocessing the listed do not answer this
[_]	Manufacturing capacity			NA kg/y
	Processing capacity .			NA kg/y
2.08 CBI	If you intend to incremanufactured, imported year, estimate the incovolume.	l or processed at any	time after your curre	ent corporate riscar
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase	NA	NA NA	NA NA
	Amount of decrease	NA	NA	<u>NA</u>
				•

2.09	listed substance	e, specify the number	cturing or processing proce of days you manufactured . Also specify the average (If only one or two opera	number of h	ours per
CBI				Days/Year	Average Hours/Day
	Process Type #1	(The process type in quantity of the lis	nvolving the largest ted substance.)		
		Manufactured		NA	_NA_
		Processed		240	_8
	Process Type #2	(The process type i quantity of the lis	nvolving the 2nd largest ted substance.)		
		Manufactured			·
		Processed			
	Process Type #3	(The process type i quantity of the lis	nvolving the 3rd largest ted substance.)		
		Manufactured			
		Processed		<u></u>	
2.10 CBI	substance that chemical. Maximum daily i	was stored on-site d	nd average monthly invento uring the reporting year i	·· <u>le loc</u>	∞ k
			tinuation sheat		
[_]	Mark (X) this	oox if you attach a	continuation sneet.		

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By products, Coproducts, or Impurities
NA	NA	NA	NA	NA_

1 liga the fel	llowing codes to designa	te hyproduct, copre	oduct. or impurit	 v:

[_]	Mark	(X)	this	pox	if	you	attach	а	continuation	sheet.
-----	------	-----	------	-----	----	-----	--------	---	--------------	--------

a.	b. % of Quantity		n example.) c.	d.
Product Types ¹	Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users ²
	100		100	
		_		
		- -		:
 Use the following codes	- to designate prod	 uct	types:	
A = Solvent B = Synthetic reactant C = Catalyst/Initiator, Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant, G = Cleanser/Detergent, H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh.	Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier esive and additives	L = M = O = O = O = O = O = O = O = O = O	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Repand additives Electrodeposition Fuel and fuel ad Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modification of ther (specify)	als and additives chemicals ol chemicals Is and additives additives
_			e of end-users:	

1	Expected Product Types - import, or process using corporate fiscal year. import, or process for e substance used during th used captively on-site a types of end-users for e explanation and an examp	the listed substa For each use, speceach use as a perce each reporting year. as a percentage of each product type.	nce ify ntag Als	the quantity you se of the total vo list the quantivalue listed unde	expect to manufacture lume of listed ty of listed substance r column b., and the
	a.	b.		c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users
	<u></u>	100	_	100	<u> </u>
			- 		
			_		
	¹ Use the following code:	s to designate prod			
	<pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator.</pre>	/Accelerator/	M : N :	= Plasticizer = Dve/Pigment/Colo	e/Rubber and addition
	Sensitizer D = Inhibitor/Stabilize		0 :	 Photographic/Repair and additives 	orographic chemical on/Plating chemicals
	Antioxidant E = Analytical reagent		Q :	= Fuel and fuel ac	lditives
	<pre>F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction</pre>	/Degreaser	S:	= Explosive chemic = Fragrance/Flavor = Pollution contro = Functional fluic	ol chemicals
	agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh		V :	<pre>= Metal alloy and = Rheological mod:</pre>	additives
	² Use the following code				
	I = Industrial CM = Commercial	CS = Cons	ume		

	a.	b.	c.	d.
P۳	oduct Type ¹	Final Product's Physical Form ²	Average % Composition of Listed Substance in Final Product	Type of End-Users
	NA	NA	NA	NA
		codes to designate pr	oduct types: L = Moldable/Castable	: : e/Rubber and add
B = C = D = F = G = H = J = K =	Sensitizer Inhibitor/Stab: Antioxidant Analytical reage: Chelator/Coagu Cleanser/Deter Lubricant/Fricagent Surfactant/Emu Flame retardan Coating/Binder	ator/Accelerator/ ilizer/Scavenger/ gent lant/Sequestrant gent/Degreaser tion modifier/Antiwea Lsifier t	<pre>M = Plasticizer N = Dye/Pigment/Color 0 = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and W = Rheological modites x = Other (specify)</pre>	cant/Ink and add cographic chemic h/Plating chemic als and additive chemicals chemicals and additives additives fier
A : B : C : D : E :	e the following = Gas = Liquid = Aqueous soluti = Paste = Slurry = Powder	F2 = Cr F3 = Gr on F4 = Ot G = Ge	her solid	
	e the following = Industrial = Commercial	codes to designate th CS = Co H = Ot		

2.15 CBI	Circl liste	e all applicable modes of transportation used to deliver by deliver by deliver by deliver by deliver by the stance to off-site customers.	ulk shipments o	of the
 [_]	Truck		• • • • • • • • • • • •	1
·—·		ar		
		, Vessel		
	Pinel	ine		4
		(specify)		
	Utner	(specify)		
2.16 CBI	or pr	mer Use Estimate the quantity of the listed substance usepared by your customers during the reporting year for used use listed (i-iv).	sed by your cu under each ca	stomers
[_]	Categ	ory of End Use		•
	i.	Industrial Products		
		Chemical or mixture	NA	kg/yr
		Article		
	ii.	Commercial Products		
		Chemical or mixture	NA	kg/yr
		Article	NA.	kg/yr
	iii.	Consumer Products		
		Chemical or mixture	NA	kg/yr
		Article		kg/yr
	iv.	0ther		
	2	Distribution (excluding export)	NA	kg/yr
		Export		kg/yr
		Quantity of substance consumed as reactant		—— kg/yr
		Unknown customer uses		kg/yr
		Unknown customer uses		_ 。
[_]	Mark	(X) this box if you attach a continuation sheet.		

PART	A GENERAL DATA		
3.01 CBI	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	les are treated a	s purchases.
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	AH	NA
	The listed substance was transferred from a different company site.	NA.	NA
	The listed substance was purchased directly from a manufacturer or importer.	LeloDD	0.60
	The listed substance was purchased from a distributor or repackager.	NA	NA
	The listed substance was purchased from a mixture producer.	NA	NA
3.02 CBI		MA o deliver the lis	NA sted substance to
	Circle all applicable modes of transportation used to your facility.		
CBI	Circle all applicable modes of transportation used to		
CBI	Circle all applicable modes of transportation used to your facility. Truck		
CBI	Circle all applicable modes of transportation used to your facility. Truck		
CBI	Circle all applicable modes of transportation used to your facility. Truck		

[_] Mark (X) this box if you attach a continuation sheet.

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
1		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars
		Hopper cars
		Tank trucks
		Hopper trucks
		Drums
		Pipeline
		Other (specify)10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg

of the mixture, the name	of its supplier(s) ion by weight of th	form of a mixture, list the or manufacturer(s), an est the need substance in the morting year.	imate of the
Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
Isofoam FOOTIA	IPI	15	6600
			:

renorting year	r in the form ϵ	isted substance used as a roof a class I chemical, class weight, of the listed subs	stance.
•		Quantity Used (kg/yr)	% Composition by Weight of Listed Substance in Raw Materia (specify ± % precision
Class I chemi	cal	NA	NA
Class II chem	ical	NA	NA
Polymer		6600	· UK

SECTION	٨.	DUVCTCAI	/CHEMICAL	PROPERTIES
CHAILING	4	PHIALLAL	, chenicas	TINGLENGTAND

General Instructions	ctions:
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If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

.01 BI	substance as it is man	rity for the three majo ufactured, imported, or product form for manuf or at the point you beg	processed. Measure acturing activities,	at the time you
1		Manufacture	Import	Process
	Technical grade #1	NA % purity	NA % purity	NA % purity
	Technical grade #2	% purity	% purity	% purit
	Technical grade #3	% purity	% purity	% purit
.02	1Major = Greatest quan	tity of listed substance	e manufactured, impor	ted or processed.
.02	1 Major = Greatest quan Submit your most recen substance, and for eve	tity of listed substanc	re manufactured, impor afety Data Sheet (MSDS ing the listed substan oped by a different so	ted or processed.) for the listed ce. If you posses urce, submit your
.02	1 Major = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.	tity of listed substance tly updated Material Sacry formulation contains	re manufactured, impor afety Data Sheet (MSDS ing the listed substan oped by a different so has been submitted by) for the listed ce. If you posses urce, submit your circling the
.02	1 Major = Greatest quan Submit your most recensubstance, and for eve an MSDS that you develversion. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Sa ry formulation contains oped and an MSDS develo	re manufactured, important of the listed substant oped by a different so has been submitted by) for the listed ce. If you posses urce, submit your circling the
02	1 Major = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Sa ry formulation contains oped and an MSDS develo ther at least one MSDS	afety Data Sheet (MSDS ing the listed substant oped by a different so has been submitted by	ted or processed.) for the listed ce. If you posses urce, submit your circling the
.02	1 Major = Greatest quan Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Sary formulation contains oped and an MSDS develo	afety Data Sheet (MSDS ing the listed substant oped by a different so has been submitted by	ted or processed.) for the listed ce. If you posses urce, submit your circling the

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

		Phy:	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas :	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	3	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[_] Mark (X) this box if you attach a continuation sheet.

	Particle Size If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles ≥10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the
CBI	listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.

Physical State		Manufacture	Import	Process	Store	Dispose	Transport
Dust	<1 micron	NA_	_NA_	NA	_NA_	_NA_	_A/_
	1 to <5 microns	NA	NA	NA	NA	NA_	_NA_
	5 to <10 microns	NA	_NA_	HA	NA	NA	NA
Powder	<1 micron	_ NA_	_NA_	_AA_	_NA_	_NA	NA_
	1 to <5 microns	NA	NA	_NA_	_NA_	_NA_	_NA_
	5 to <10 microns	NA_	NA_	_NA_	44	_NA_	NA
						-	
Fiber	<1 micron	NA	_NA_	NA	NA	_NA_	NA
	1 to <5 microns	NA_	NA	NA	_NA_	_NA_	_NA_
	5 to <10 microns	NA	NA_	_NA_	_NA_	_NA_	_NA_
Aerosol	<1 micron	_NA_	NA_	NA	NA	_NA_	_NA
	1 to <5 microns	NA	_NA_	NA	NA	_NA	_NA
	5 to <10 microns	NA	_NA_	NA_	_NA_	_NA_	NA_

[[]_] Mark (X) this box if you attach a continuation sheet.

PART	A R	ATE CONSTANTS AND TRANSFORMATION PRODUCTS		
5.01	Ind	icate the rate constants for the following trans	sformation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	<u>UK</u> (1/M cm) at	nm
		Reaction quantum yield, 6	UK at	nm
		Direct photolysis rate constant, k _p , at	UK 1/hr	latitude
	ъ.	Oxidation constants at 25°C:		
		For ¹ 0 ₂ (singlet oxygen), k _{ox}	UK	1/M hr
		For RO ₂ (peroxy radical), k _{ox}	ИK	1/M hr
	c.	Five-day biochemical oxygen demand, BOD ₅		mg/l
	d.	Biotransformation rate constant:		
		For bacterial transformation in water, $k_b \dots $	UK	1/hr
		Specify culture	LIK	
	e.	Hydrolysis rate constants:		
		For base-promoted process, k _B	UK	1/M hr
		For acid-promoted process, k,	UK	1/M hr
		For neutral process, k _N		
	f.	Chemical reduction rate (specify conditions)		

[_]	Mark (X) this box if you attach a continuation sheet.	

g. Other (such as spontaneous degradation) ...

5.02	a.	Specify the half-lif	e of the listed sub	stance in the follo	wing medi	a.
		<u>Media</u>		Half-life (spe		
		Groundwater		UK		
		Atmosphere		ロド		
		Surface Water		1114		
		Soil		ЦK		
	b.	Identify the listed life greater than 24	substance's known t		icts that	have a half-
		CAS No.	Name	Half-life (specify units	<u>s)</u>	Media
		UK	UK	<u> </u>	in	UK
					in	
					in	
					in	
5.03	Met	cify the octanol-water needs the collection of t	determination			at 25°C
3.04		il type				
5.05	Spe coe	ecify the organic carl	bon-water partition		UK	at 25°C
5.06	Spe	ecify the Henry's Law	Constant, H		ПK	atm-m³/mole
[_]	Maı	rk (X) this box if you	u attach a continuat	ion sheet.		

Bioconcentration Factor	Species	<u>Test</u> ¹
<u> </u>	UK	UK
 ¹ Use the following codes to	designate the type of test:	
F = Flowthrough	••	
S = Static		
		:

Market Market Retail sales Distribution Wholesalers Distribution Retailers Intra-company transfer Repackagers Mixture producers Article producers Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A commerciable substitute is one which is economically and technologically feasible substitute is one which is economically and technologically feasible substitute is one which is economically and technologically feasible substitute is one which is economically and technologically feasible substitute Substitute Cost	s value of ar.
Retail sales Distribution Wholesalers Distribution Retailers Intra-company transfer Repackagers Mixture producers Article producers Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible substitute in your current operation, and which results in a final product with comperformance in its end uses.	
Distribution Wholesalers Distribution Retailers Intra-company transfer Repackagers Mixture producers Article producers Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible substitute in a final product with comperformance in its end uses.	
Intra-company transfer Repackagers Mixture producers Article producers Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that your for the listed substance and state the cost of each substitute. A commercially substitute is one which is economically and technologically feasible substitute in your current operation, and which results in a final product with comperformance in its end uses. [_] Substitute Cost	
Intra-company transfer Repackagers Mixture producers Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible substitute is one which results in a final product with comperformance in its end uses. Substitute Cost	
Mixture producers Article producers Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible in your current operation, and which results in a final product with comperformance in its end uses. Substitute Cost	
Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically fea in your current operation, and which results in a final product with comperformance in its end uses. Substitute Cost	
Other chemical manufacturers or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible substitute in your current operation, and which results in a final product with comperformance in its end uses. Substitute Cost	
Or processors Exporters Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible substitute one which is economically and technologically feasible substitute is one which results in a final product with comperformance in its end uses. [] Substitute Cost	
Other (specify) 6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible in your current operation, and which results in a final product with comperformance in its end uses. Substitute Cost	
6.05 Substitutes List all known commercially feasible substitutes that you for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feat in your current operation, and which results in a final product with comperformance in its end uses. [] Substitute Cost	
for the listed substance and state the cost of each substitute. A comme feasible substitute is one which is economically and technologically feasible in your current operation, and which results in a final product with comperformance in its end uses. [] Substitute Cost	
Substitute Cost	ercially isible to use
- LIK	t (\$/kg)
[_] Mark (X) this box if you attach a continuation sheet.	

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

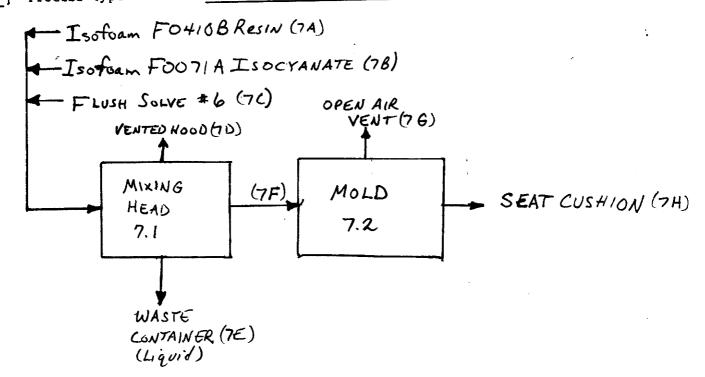
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

[] Process type Urethane Foam Seat Cushion

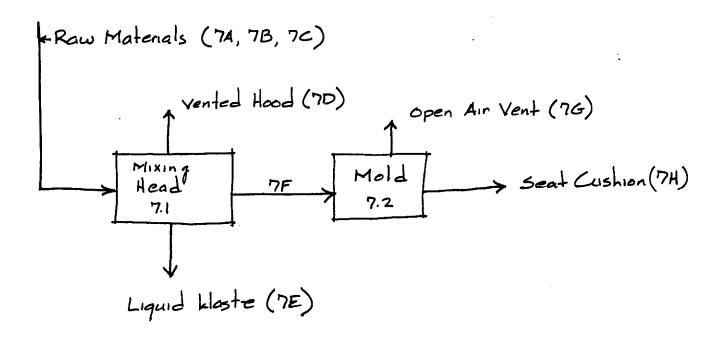


[[]__] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

1 Process type Urethane Foam Seat Cushion



^[] Mark (X) this box if you attach a continuation sheet.

	Uretha	- E		
] Process type	Urethai	ne roam Je	at Cushio	
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
7.1	Mixing Head	Ambient	1 <u>500-230</u> 0	Stainless S Epoxy
7.2	mold	Ambient	Atmosphene	Epoxy
				· ·
,				

Process ty	Process type Urethene Foam Seat Cush				
Process					
Stream ID Code	_	Process Stream Description	Physical State	Strea Flow (kg	
7A	五	ofoam FO410B	OL	14,00	
73	IS	ofoam FOOTIA	OL	101000	
7C	Flu	sh alve#6	<u> </u>	20,00	
7 D		ented bood	<u>GU</u>	LIK	
7E	Lin	ortainer	<u>5</u> Y	18,00	
7F_		ral	<u>OL</u>	_ UK	
7G	<u> </u>	tilation	GU	_UK	
74	<u> </u>	cushim	<u></u>	UK	
GC = Gas GU = Gas SO = Soli SY = Slud AL = Aque	(condensible (uncondensible de le slurry eous liquid		and pressure) re and pressure)		

7.06 CBI	If a proces	e each process stream i s block flow diagram is on and complete it sepa s for further explanati	; provided for mot trately for each p	rocess type. (
		e Uretha			
_	a.	b.	c.	d.	е.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	78	Isofoam FOOTIA	100 (E)(Y)	None	<u> </u>
	•				
			<u></u> .		
7.06	continued l	 pelow			

7.06 (onti	nued)
--------	------	-------

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package		Concentrations (% or ppm)
1		<u> </u>	
		- · -	
2		_	
3		- —	
		_	
4			
		_	
5			4.00
		_	
² Use the following codes to	designate how the con		determined:
A = Analytical result E = Engineering judgement/c	calculation		
Use the following codes to	designate how the con	centration was	measured:
V = Volume W = Weight			

[_] Mark (X) this box if you attach a continuation sheet.

01 I	In accordance with the instructions, provide a residual treatment block flow diagra which describes the treatment process used for residuals identified in question 7.0						
= _1	Process type		NA				
_*	·						
					ì		
	·						

BI — l		type			explanation a		
[,]	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) 4,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
						4	

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

8.05	cont	inued)
8.00 (CONT	THAGA

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1		
2		
		:
3		
4		
5		
⁴ Use the following code	s to designate how the concentratio	n was determined:
A = Analytical result E = Engineering judgem	nent/calculation	
8.05 continued below		
[_] Mark (X) this box if yo	ou attach a continuation sheet.	

8.	05	(continued)
٥.	UJ	(continued	

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit (± ug/l)
_1		
2		
3		
4		
_5		
6		

(-)	Mark	(X)	this	box	i f	you	attach	а	continuation	sheet.
-----	------	-----	------	-----	-----	-----	--------	---	--------------	--------

<u>BI</u>	Deces	tuno	<u>Ure</u>	Hane Foo	m Sea	+ 615	vion	
1	a.	b.	c.	d.	e .		f.	g.
	Stream ID Code	Waste Descripti Code ¹	Management	Residual Quantities (kg/yr)	of Resid	gement dual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods
	<u>7E</u>	AOI		18 000	0	100	#0.16	None

				•				
				<u></u>				
								
	¹ Use th	e codes p	rovided in Exh rovided in Exh	ibit 8-1 to dibit 8-2 to	designate designate	the waste	description	s s

1	Combustion Chamber Temperature (°C)		amber	Temp	tion of erature nitor	In Cor	Residence Time In Combustion Chamber (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary		
	1	-							
	2								
	3								
	by circ	ling the app	ropriate resp	oonse.	s been submit				
					•••••				
	No				• • • • • • • • • • •	• • • • • • • • • • •			
.23 BI	Complete the are used on-s treatment blo	ite to burn	the residuals	s identified	st (by capaci I in your pro	cess block o Type	s of		
BI	are used on-s	ite to burn	the residuals ram(s). Air Po	three larges identified ollution large	st (by capaci	Type Emissio	s of ns Data lable		
BI	are used on-s treatment blo Incinerator	ite to burn	the residuals ram(s). Air Po	ollution	st (by capaci	Type Emissio Avai	s of ns Data lable		
BI	are used on-s treatment blo Incinerator 1 2 3	ite to burn ck flow diag	the residuals ram(s). Air Po Contro	ollution l Device		Type Emissio Avai	s of ns Data lable		
BI	Incinerator 2 Indicate by circ	ite to burn ck flow diag e if Office ling the app	of Solid Was	ollution l Device A te survey haponse.	as been submi	Type Emissio Avai NA	s of ns Data lable		
BI	Incinerator 1 2 3 Indicate by circ	ite to burn ck flow diag e if Office ling the app	of Solid Was	te survey haponse.	as been submi	Type Emissio Avai NA	s of ns Data lable of respons		
BI	Incinerator 1 2 3 Indicate by circular Yes	ite to burn ck flow diag e if Office ling the app	of Solid Was	te survey haponse.	as been submi	Type Emissio Avai NA	s of ns Data lable of respons		
BI	Incinerator 1 2 3 Indicate by circular Yes	e if Office ling the app	of Solid Was	te survey haponse.	as been submi	Type Emissio Avai NA	s of ns Data lable of respons		

SECTION	9	WORKER	EXPOSURE
---------	---	--------	-----------------

Ce	ne	ra	1 I	กร	tr	uc	ti	on	5 :
uc	:116	La		113		u			

 $(\varphi_{i}, X_{i}) = (\varphi_{i}, X_{i})$

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[_] Mark (X) this box if you attach a continuation sheet.

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

-	ata are Ma: Hourly Workers	intained for: Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintained
Data Element	workers	1.77		
Date of hire	_X_	<u> </u>	1932	
Age at hire	_X_	X	1932	3
Work history of individual before employment at your facility	_X_	X	1932	3
Sex	_X	X	1932	3
Race	_X_	X	1932	3
Job titles	X	X	1932	3
Start date for each job title	_X_	X	1932	3
End date for each job title	X	X	1932	3
Work area industrial hygiene monitoring data	NA	NA	NA	NA
Personal employee monitoring data	<u> </u>	NA_	1950	30+
Employee medical history	X	X	1950	30+
Employee smoking history	X	X	1950	
Accident history	X_	X	1950	30+
Retirement date	_X_	X	1932	3
Termination date	X_	X	1932	3
Vital status of retirees	NA	NA_	NA	NA
Cause of death data	<u>NA</u>	NA_	N A	NA.

[[]_] Mark (X) this box if you attach a continuation sheet.

9.02 CBI	In accordance with the in which you engage.	instructions, complete	the following ta	ble for ea	ach activity
[_]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the	Enclosed	NA	NA	NA
	listed substance	Controlled Release	AA	_NA_	NA.
		0pen	NA	NA	NA
	On-site use as	Enclosed	NA_	NA	NA
	reactant	Controlled Release	NA	NA_	NA
		0pen	NA	NA_	NA
	On-site use as	Enclosed	NA	_NA	NA
	nonreactant	Controlled Release	NA	NA_	NA
		0pen	MA_	_NA_	NA
	On-site preparation	Enclosed	NA.	_NA_	NA
	of products	Controlled Release	61000		1,750
		0pen	AA	NA	NA

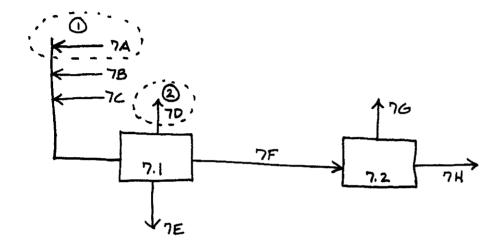
 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

.03	Provide a descriptivencompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the	e
<u>3I</u>			
_1			
	Labor Category	Descriptive Job Title	
	A	Foam machine operator	
	В	•	
	c		
	D		
	E		
	F		
	G		
	Н		
	I		
	J		

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type Urethane Foam Seat Custion



[[]_] Mark (X) this box if you attach a continuation sheet.

9.05	may potentially come	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
CBI		
[_]	Process type	Urethane Foam Seat Cushion
	Work Area ID	Description of Work Areas and Worker Activities
	1	Raw material drum - connect to four machine
	2 .	Chemical Mixing Head
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	

<u> </u>	Process type Urethane Foam Seat Cushion								
	Work area								
	Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number o Days per Year Exposed		
	A		Inhalatio	-1	6L	A	235		
	A		Drect shin	contact	oh_	A	235		
							:		
	450-77- · · · · · · · · · · · · · · · · · ·								
			<u> </u>	·					
	Use the following codes to designate the physical state of the listed substance at the point of exposure:								
	GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure;			<pre>SY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid</pre>					
	SO = Solid	udes fumes, va i	pors, ecc.,			10% toluene)			
	² Use the fo	llowing codes	to designate av	erage l	ength of exp	osure per day:			
	<pre>A = 15 minutes or less B = Greater than 15 minutes, but not exceeding 1 hour C = Greater than one hour, but not exceeding 2 hours</pre>			E = 0	exceeding 4	4 hours, but hours			

Process type	<u>Ur</u>	ethane Foo	n 5	eat Cus	hion		
Work area							
Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direc skin contact	٠+	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number Days pe Year Expose	
		Inhalation		GU	B	235	

	and the second s						
					1.727		
the point of the p	of exposure: (condensible at erature and pre(uncondensible erature and preudes fumes, vanded	essure) at ambient essure; eors, etc.) to designate aver	SY = AL = OL = IL = Tage le E = 0	Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% water, l ength of expo	lurry uid uid liquid ases, e.g., 10% toluene) osure per day: 2 hours, but hours 4 hours, but	not	

area.	.1	1 . 1
Process type	. Unethane Foom Sea	+ Cushion
Work area		
Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure (ppm, mg/m³, other-spe
	NA	None Detected
		:
1200		

.07	Vaighted Average (TVA	ry represented in question 9.06, a) exposure levels and the 15-min on and complete it separately for	nute beak exposure revers.
<u> 31</u>			
	Process type	Unethone Foam Seat	Cushion
	Work area		3
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	NA	NA	NA

.08 BI	If you monitor worke	r exposur	e to the lis	sted substar	nce, compl	ete the fo	llowing table
1	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
	Personal breathing zone			_NA_	NA_	_NA_	NA
	General work area (air)			NA_	NA_	_NA	NA
	Wipe samples		o	NA_	NA	NA_	NA NA
	Adhesive patches			_NA_	_NA_	NA_	. <u>NA</u>
	Blood samples			_NA_	_NA	NA_	NA
	Urine samples	_1_		NA	_NA_	NA	NA
	Respiratory samples			_NA_	_NA_	NA	NA_
	Allergy tests		0	_NA_	_NA_	NA	NA
	Other (specify)						
	Other (specify)	44.49.41					
	Other (specify)						
	¹ Use the following of A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	al hygieni ler	ist	o takes the	monitorin	g samples:	,

[_]	Sample Type	Sampling and Analytical Methodology							
	NA		NA NA						
9.10	If you conduct perso specify the followin	nal and/or ambient g information for e	air monitoring fo ach equipment typ	r the listed s e used.	ubstance,				
CBI	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number				
` 1	NA.		NA	NA.	NA				
	¹ Use the following c A = Passive dosimet B = Detector tube C = Charcoal filtra D = Other (specify)	er		oring equipmen	t types:				
	Use the following codes to designate ambient air monitoring equipment types: E = Stationary monitors located within work area F = Stationary monitors located within facility G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify)								
	I = Other (specify) 2 Use the following codes to designate detection limit units:								
	A = ppm B = Fibers/cubic centimeter (f/cc) C = Micrograms/cubic meter (μ/m³)								

]	Test	Description		(weekly	Frequency, monthly, yea	rly, etc.)
_	espritory	Physical			Annua	
•						
			-			
						:

2	Describe the engineering con to the listed substance. Ph process type and work area.	trols that you otocopy this o	u use to reduce or question and compl	r eliminate wor lete it separat	ker exposure ely for each
_	Process type		<u> </u>	. ا مراسا	•
]	Process type	Uretha	ne toam se	eat Cushi	<i>b</i> ^
	Work area	• • • • • • • • • • • • • • • • • • • •		••	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u> </u>	1975	_ N_	_NA_
	General dilution	<u> </u>	_NA_	_NA_	NA
	Other (specify)				;
	Vessel emission controls	_ N	NA	NA	NA .
	Mechanical loading or packaging equipment	N	NA_	NA	NA
	Other (specify)				

[[]_] Mark (X) this box if you attach a continuation sheet.

	Process type <u>Urethane Foam Seat</u>	
]		Lashion
	Work area	
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	None	NA
	None	
		:
		•

	in each work area	onal protective and safety equ in order to reduce or elimina copy this question and complet	te their exposure to	the listed
CBI	and work area.	_	,	
[_]	Process type	Urethane Foam	Seat Cust	100
	Work area		·····	142
		Equipment Types	Wear or Use (Y/N)	
		Respirators	7	
		Safety goggles/glasses	Y	i
		Face shields	_ N	
		Coveralls	_ N	
		Bib aprons		
		Chemical-resistant gloves		
		Other (specify)		

1 2 2

	tested, and	used, the average usa the type and frequence separately for each p	ey of the fit t	ests. Pho	tocopy this	question and
CBI						
	Process type			NA Fit		Frequency of
	Work Area	Respirator Type	Average Usage	Tested (Y/N)	Type of Fit Test ²	Fit Tests (per year)
	¹ Use the fol	lowing codes to desig	gnate average w	ısage:		
	A = Daily B = Weekly C = Monthly D = Once a E = Other (year				
	² Use the fol	lowing codes to desig	gnate the type	of fit tes	:t:	
	QL = Qualit QT = Quanti					

Proce Work 9.20 Indileak sepa Proc Work Hous Swee Vacu Wate Othe						
9.20 Indileak sepa Proc Work Hous Swee Vacu Wate Othe	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.					
Work A+ PO 9.20 Indileak sepa Proc Work Hous Swee Vacu Wate Othe	ocess type	rethane Foo	m Seat	Cushion		
9.20 Indileak sepa Proc Work Hous Swee Vacu Wate Othe	rk area			<u> </u>	†2	
leak sepa Proc Work Hous Swee Vacu Wate	lorkers wear safe- t other times to practices.	ly equipment hey use sta	when h	andling lis	ted substance	
Hous Swee Vacu Wate Othe	Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Urethane Foam Seat Cushion					
Vacu Wate Othe	rk areaur	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day	
Wate Othe	eeping	X				
0the	cuuming	NA_	-			
	ter flushing of floors	<u> </u>				
المال	her (specify)					
,	lipe with mg	X				

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
	·
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
<u> </u>	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located?	Circle all appropriate responses.
CBI		
[_]	Industrial area	
	Urban area	2
	Residential area	3
	Agricultural area	
	Rural area	5
	Adjacent to a park or a recreati	onal area 6
	Within 1 mile of a navigable wat	erway 7
	Within 1 mile of a school, unive	rsity, hospital, or nursing home facility \dots
	Within 1 mile of a non-navigable	waterway 9
	Other (specify)	10

	Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.									
	Latitude									
	Longitude	Longitude								
	UTM coordinates Zone	, North	ing, Ea	asting						
10.03	If you monitor meteorological condithe following information.	ditions in the vicin	ity of your fac	ility, provide						
	Average annual precipitation	••••••		inches/year						
	Predominant wind direction			aproportion of the state of the						
10.04	Indicate the depth to groundwater Depth to groundwater	-		meters						
10.05 CBI	For each on-site activity listed, indicate (Y/N/NA) all routine releases of the listed substance to the environment. (Refer to the instructions for a definition of Y, N, and NA.)									
CBI	listed substance to the environment	nt. (Refer to the i	nstructions for	a definition of						
	listed substance to the environment	nt. (Refer to the i	ll routine releanstructions for ironmental Relea	a definition of						
CBI	listed substance to the environment Y, N, and NA.)	nt. (Refer to the i	nstructions for ironmental Relea	a definition of ase						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity	nt. (Refer to the interpretation of the inte	nstructions for ironmental Relea	a definition of ase Land						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing	Refer to the interest of the i	ironmental Relea	a definition of ase Land NA						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing	Refer to the interest of the i	ironmental Relea	a definition of ase Land NA						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	Env Air NA NA Y	ironmental Relea Vater NA NA	a definition of Land NA NA						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	Env Air NA NA NA NA	ironmental Releavater NA NA NA NA	a definition of Land NA NA NA NA						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	Env Air NA NA NA NA NA NA	ironmental Relea Vater NA NA NA NA NA	a definition of Land NA NA NA NA NA NA NA NA						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env Air NA	ironmental Relea Vater NA NA NA NA NA NA NA NA NA N	A definition of Land NA NA NA NA NA NA NA NA						
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env Air NA	ironmental Relea Vater NA NA NA NA NA NA NA NA NA N	A definition of Land NA NA NA NA NA NA NA NA NA						

Process type	Urethane Foam Seat Cus	hon
Stream ID Code	Control Technology	Percent Effic
	None	
		•
		- And Andrews - And Andrews - Andrew

PART E	RELEASE TO AI					
10.09 <u>CBI</u> []	Point Source Emissions Identify each emission point source containing the listed substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission sources (e.g., equipment leaks). Photocopy this question and complete it separately for each process type. Process type Ure thank from Seat Cushion					
	Point Source	Description of Emission Point Source				
•	ID Code	Vent stack				
		:				
	 					

	Emissic 10.09 b	Emission Characteristics Characterize the emissions for each Point Source ID Code identified in question 10.09 by completing the following table.								
<u>CBI</u>	Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event)	
	<u> 20</u>	6	<u>UK</u>	235	120	<u> UK</u>	UK	<u>UK</u>	UK	
										
										
								<u></u>		
										
						-				
										
										
	¹Use th G = Ga	ne following as; V = Vapo	codes to des	ignate physica ulate; A = Aer	al state at throsol; 0 = 0th	e point of reer (specify)	elease:			
				evel of emissi		•				
				vel of emissio						

 $^{^4}$ Average Emission Factor — Provide estimated ($_\pm$ 25 percent) emission factor (kg of emission per kg of production of listed substance)

<u>_</u> 1	Point Source ID Code	Stack Height(m)	<u>(m)</u>	Exhaust Temperature (°C)	(m/sec)	Building Height(m) ¹		Vent Type	
	70	10	25	Ambient			33		
							-		
								-	
								pp	
	_		or adjacent						
	² Width of attached or adjacent building								

[[]__] Mark (X) this box if you attach a continuation sheet.

0.12	distribution for each Point Source	in particulate form, indicate the particle size ID Code identified in question 10.09.
BI	Photocopy this question and complet	e it separately for each emission point source.
1	Point source ID code	NA
	Size Range (microns)	Mass Fraction (% ± % precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%

* * * *

PART C	FUGITIVE EMISSIONS						
10.13	Equipment Leaks Complete types listed which are expe according to the specified the component. Do this for residual treatment block fi not exposed to the listed sprocess, give an overall pe exposed to the listed subst for each process type.	osed to the l weight perce each proces low diagram(s substance. I	isted sulent of the stype ic. by Do note this is time per	bstance as e listed dentified of includes a batch year tha	nd which a substance in your pe e equipment or interior t the pro-	are in set passing process be not types mittently cess type	rvice through lock or that are operated is
[]	Process type <u>Ureth</u>	one Foom	Seat	Cushio	n		
_	Percentage of time per year type	that the li	stėd sub	stance is	exposed		
						y Weight I cess Strea	am
	Equipment Type Pump seals ¹	Less than 5%	5-10%	11-25%	<u>26-75%</u>	76-99%	Greater than 99%
	Packed	2					
	Mechanical	$\overline{}$					
	Double mechanical ²						
	Compressor seals	<u> </u>	***************************************			-	
	Flanges						-
	Valves						
	Gas ³	•					
	Liquid		**************************************				
	Pressure relief devices (Gas or vapor only)						
	Sample connections						
	Gas	0					
	Liquid	<u> </u>					
	Open-ended lines ⁵ (e.g., purge, vent)		-				
	Gas	J					
	Liquid						
	¹ List the number of pump an compressors	d compressor	seals, r	ather tha	an the num	nber of pu	umps or
10.13	continued on next page						

10.13	(continued)	(continued)							
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively								
	³ Conditions existing in th	ne valve during norma	al operation						
	⁴ Report all pressure relie control devices	ef devices in service	e, including those	equipped with					
	⁵ Lines closed during norma operations	al operation that wou	ald be used during	maintenance					
10.14 CBI	Pressure Relief Devices wi pressure relief devices in devices in service are cor enter "None" under column	lentified in 10.13 to strolled. If a press	o indicate which p	ressure relief					
[]	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel	c. Control Device	d. Estimated Control Efficiency ²					
	l l	<u> </u>	None	NA					
	•								
	·								
	Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)								
	with rupture discs under a	The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions							
[_]	Mark (X) this box if you a	ttach a continuation	sheet.						

CBI	place, complete the following table regarding those leak detection and repair procedures. Photocopy this question and complete it separately for each process type.								
[_]	Process type	• • • • • • • • • • • • • • • • • • • •	NA						
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device		Repairs Initiated (days after detection)	Repairs Completed (days after initiated)			
	Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas Liquid								
 -	¹ Use the following co POVA = Portable orgo FPM = Fixed point mo O = Other (specify)	anic vapor analyzer onitoring		evice:					

10.23	Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.							
	Release		ite irted	Time (am/pm)	Date Stopped	Time (am/pm)		
	1	!	NA	NA	NA	NA		
	2			-				
	3							
	4							
	5							
	6					•		
	Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)		
	1 2 3							
	1 2 3 4							
	1 2 3					Precipitatio (Y/N)		
	1 2 3 4 5							
	1 2 3 4 5							
	1 2 3 4 5							
	1 2 3 4 5							

· MATERIAL SAFETY I	ΠΔΤΔ ΟΝΕΕΤ		
A CONTRACT OF THE PROPERTY OF	1 CT	MAZARO RATING N 4 — EXTREME	Pire Staff
PRODUCT F-007	LIA FOOM	F 3 - HIGH P 2 - MODERATE	Reak
388		1 - SLIGHT	Toulsty
Isofoam® Systems	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0 - INSIGNIFICANT	Specie
Triumph Industrial Park, 505	Dive Dell D	EMERGE	NCY TELEPHONE
P.O. Box 70 Filter MO 31	Dine Rail Koad	T TRADUITEA	PTI IS 4
P.O. Box 70, Elkton, MD 21	921 (301/392-4800)	CHENTA	392-4800 261-(800) 424-9300
3 Reactive Isocyanates	FORMULA		
and the second s	4	Proprietary	-
SECTION IN CHEMICA WANDAHYSICA CHARLES	A STATE OF THE STA		
	CHEMICAL		HYSIDAY
Oxides of carbon and nitrogen	11 M	FORM	
INCOMPACION TO A STATE OF THE S	13.00	B Llq	uid .
Water (moisture), Alcohols, Amines, Str		- P TDE	~ 40
8 Marian Marian	ong Acids and Base	APPEARANCE	Odor Jan
LIST ALL TOXIC AND HAZARDOUS INGREDIENTS			11d
Toluene Diisocyanate (TDI)/Methylenedip (MDI) and Polyether Prepolyment and	henyl Diisocyanate	COLOR	
(MDI) and Polyether Prepolymer with 29%	Free Isocyanate.	SPECIFIC GRAVI	k Brown
		12 WATER = 1)	1.15@ 25°C
SECTION INC. THE AUTOEXPLOSION HATES	•	BOH ING PT.	
SPECIAL FIRE FIGHTING PROCEDURES Firefighters must be	FLASH POINT (METHOD USED)	- 1	128
equipped to prevent breathing of vapors or		13	263
	26 148 -c 298 -	F MELTING PT	NDA
Teal	NDA NDA		NDA
Contamination in to load avoid moisture	27 LOWER UPPER	SOLUBILITY	
contamination in closed containers. Reac-	EXTINGUISHING AGENTS 🚎 🖫	W WATER	<u></u>
ion with moisture will generate CO2 which	D DRYCHEMICAL X CO.	AT	Reacts
The state of the contrainer	WATERSPRAY & FOAM	15	
The state of the s	WATERFOG DSAND/EARTH	16 BY WT %	200
PERMIANAL CONCENSES OF A ZARDOZATA	TO OTHER	EVAP. RATE	N11
PRAMICALLE CONCENTRATIONS (AIR)	*** * n		
		VAPOR PRESSU	1) NDA
FROM 0.02 ppm - O.S.H.A. TLV for TDI		18 (mm Hg at 20	CI NDA
cause headaches, nauses a respire	atory tract May	VAPOR DENSI	Y
Cause headaches, nausea, coughing, shortnes chest discomfort. May result in respirato	s of breath, &	10 (AIR = 1).	- NDA
MAN Cause allergic skip of	4 J 41307 ESS,	DH AS IS	NDA
resolution, Persons with known respiratory a	llergies, should	20 pH (127	NDA
MANAGENTY HAST AD PROCEDURES The case of eye contact, flush with plesses at least 15 minutes. Call a physician	170 managara garan 214	STRONG ACID	
an case of eye contact, flush with ple	nty of water for	TRONG BASE	
At least 15 minutes. Call a physician	. at mood for	STABLE	
meen unoroughly with goon and the		UNSTABLE	
also tentaminated clothing & discard shoes Wash clothing before reus		21	
TOWER ATOM CONTAMINATED SHOP FA		VISCOSITY "	<100 €
		AT 100 %	100 001 > 17
The short of the state of the s	Lfficult, give	23	and .
Call a physician immediately,	oxygen.	Viscosity @	2500 120
			25°C 120 cps
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SECTION V - SPECIAL	LPROYECTIO	NINFORMAT	JON				
VENTILATION TYPE REQUIR	RED (LOCAL, ME)	CHANICAL, SPE	CIAU		PROTECTIVEGL	OV#S	
Mechanical; to m	asintain v	Led stone	out the mo	T #/12	lmperv	ious rubber	or
,		whote ber	OM CUH'.ID	1 1LV = 0.02 p	Pm sal plastic	ė .	
36		* · · · · · · · · · · · · · · · · · · ·		3°''	EYE PROTECTIO	NESafety go	30 40
RESPIRATORY PROTECTION	I ISPECIFY TYPE	1		· ,	and race	s shield to	Avaid
Use NIOSH a	pproved by	esthing s			39 SD1 ash1 :	on face	
	FETOTOL DI	canning a	pparacus.	e	OTHER PROTECT	IVE EQUIPMENT	
37		,•		ļ	Work cloth	ith, which p	Tovides
KENTATE PERCONSTRUCT	SSACE Contract			·	40 WTOLecti	on from apl	n o N S & LET
SECTION VIN HANDEN	VIS OF SPIELS	ORIZEANS			materia]		
PROCEDURES FOR CLEAN U	with ade	equate ver	tilation	, cover with a	n inert absor	bent mater	1 = 1
Such as clay or NOT SEAL THE CON	AVINCE (V) AGLMITCÜTİ	ce, transf	er to a m	metal containe	r. Saturate	ith water	hist DO
1537 ammonte and a	40	17	9-2-4 WOL	d). Wash the	area with wat	er contain	ine
of eyes and si	kin durin:	. NOBILLES	pirator a	und other prote	ective equipment	ent for pro	tection
WASTE DISPOSAL		CTGGTTTD.	ta unkod				
	1.0		an gara de la proposición de la como de la c	r i se ar un un manufigura .			14
Dispose of	consisten	t with Fed	ieral St	ata mad lana		· · · · · · · · · · · · · · · · · · ·	7
42	13			rea' stiri TOCST	regulations,	i i	•
SECTION VIRE BECKE	The Republic Commence	NE-Of		1		***	
PRECAUTIONS TO BE TAKEN	IN HANDLING AL	VO PTOPAGE	·	1			
Avoid on		TO STORAGE	_				-
A A OTTO COL	acact with) moisture	: 'Isocyar	nates react wi	th water and	agnerate C	.
451 Which may rup	cure seale	ed contain	i ers. . Stor	e between 60 a	and 85°F (15	and 30°C).	~~
SECTIONAVIIKE SERVISP	CHELPHINE	35 TO 1981		7 t. 11.			-
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EMERGENCY WFORMATION	80	51 NA	4		:		
	FREIGHT CLAS	SIFICATION	and the second				
CHEM TREC	52 Liqu	id Plasti	c Materia	l/NOIBN	•		147
1-(800) 424-9300	SPECIALTRAN	SPORTATION N	OTES				
18	53 None		• • • • • • • • • • • • • • • • • • • •				
EQUONING ACOUNTRY	193		•				
		TO AN ORGA	1277				1946
	MUST NOT	TO AN UNGA	NTC WND I	AUST BE CONSID	ered as combi	JSTILBE.	
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REVISION DATE 5/24/	<u>85</u>	SENT TO AT	FN:				·-
SUPERSEDES _ 5/ 9/	84				-	DAYE	/24/03
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We believe the statements, technical information and recommendations contained herein are reliable, hill they are given without warranty or quarantee of any kind, express or implied, and we assume no responsibility for pay loss, damage, or expense, direct or consequential, arising out of their use.

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